Office of the Mayor Chokwe Lumumba, Mayor



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Chief, Environmental Enforcement Section Environment and National Resources Division U.S. Department of Justice Box 7611 Ben Franklin Station Washington, D.C. 20044-7611 Re: DOJ No. 90-5-1-1-09841

Brad Ammons
Environmental Engineer
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Municipal & Industrial Enforcement Section
U.S. EPA Region 4
61 Forsyth St., SW
Atlanta, GA 30303

Karl Fingerhood Environmental Enforcement Section U.S. Department of Justice Box 7611 Ben Franklin Station Washington, D.C. 20044-7611

October 30, 2013

RE:

City of Jackson

EPA Consent Decree

2nd Quarterly Report, July – September 2013

Dear Gentlemen.

Attached please find the Quarterly Report for the period of July through September 2013. The report was developed and submitted by the City in accordance with the EPA Consent Decree dated March 1, 2013 and your correspondence of May 31, 2013.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering such information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

hokwe mumba

Mayor

cc:

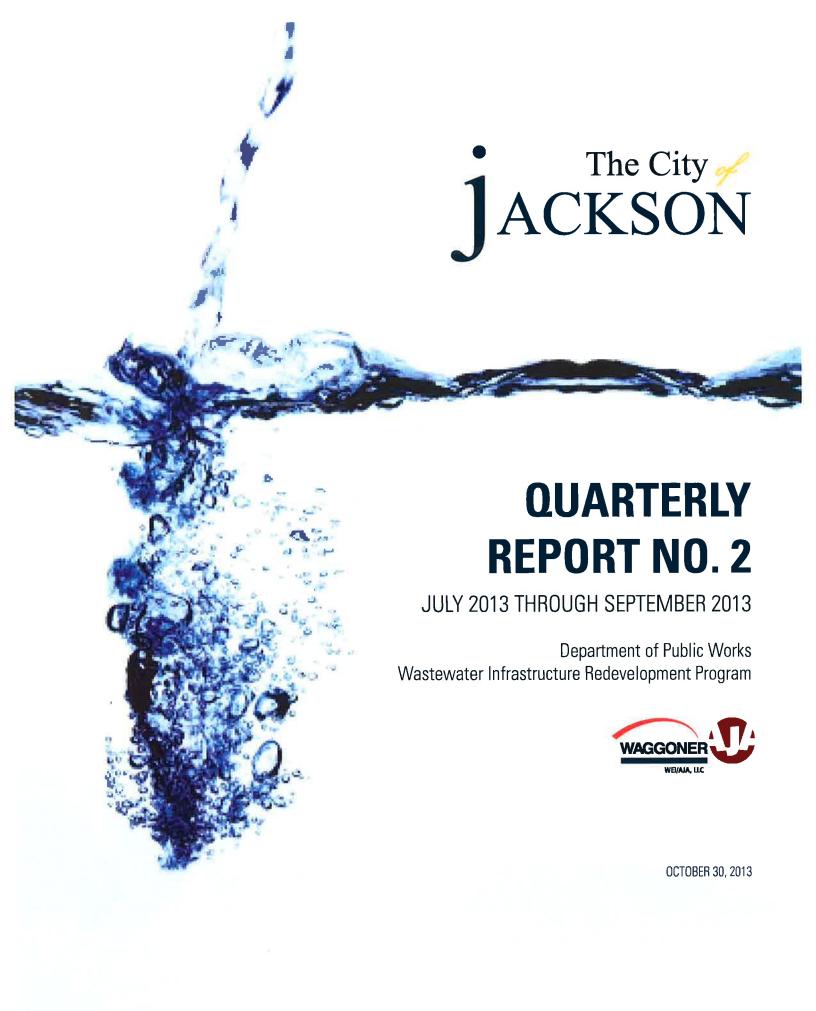
Les Herrington, P.E., Mississippi Department of Environmental Quality

Gail Lowery, City Attorney

Willie C. Bell, Jr., Interim Director, Department of Public Works

Mumba

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City of Jackson Wastewater Infrastructure Redevelopment Program

Quarterly Report No. 2 July 2013 through September 2013

October 30, 2013

Prepared for:

City of Jackson
Department of Public Works
P.O. Box 17
Jackson, MS 39205-0017

Prepared by:

WEI/AJA LLC 143A LeFleurs Square Jackson, MS 39211

City of Jackson, Mississippi **Quarterly Report No.2** July 2013 through September 2013

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering such information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Chokwe Lumumba

Mayor

Willie C. Bell, Jr., Interim Director Department of Public Works

10/30/13

Quarterly Report No. 2 July 2013 through September 2013

Contents

1.0 I	ntroduction	1-1
1.1	Consent Decree Overview	1-1
1.2	Authority to Promulgate	1-1
1.3	Consent Decree Requirements	1-1
2.0 S	ummary of SSOs and Prohibited Bypasses	2-1
2.1	Collection System SSOs	
2.2	Pump Station SSOs	2-6
2.3	Prohibited Bypasses	2-9

1.0 Introduction

1.1 Overview

On March 1, 2013, the Consent Decree (CD) agreed to by the City of Jackson, Mississippi, U.S. Environmental Protection Agency (EPA), and the Mississippi Department of Environmental Quality (MDEQ) regarding the wastewater collection and treatment system was entered by the U.S. Court, Southern District of Mississippi. Over a 17½ year timeline, the Consent Decree requires the City to:

- Develop, submit, finalize, and implement plans for the continued improvement of the Wastewater Collection and Transportation System (WCTS) and Wastewater Treatment Plants (WWTPs);
- Eliminate Sanitary Sewer Overflows (SSOs), effluent limit violations (including any violations of the new effluent limits for nutrients), and reporting violations, and
- Minimize Prohibited Bypasses.

One of the ongoing requirements of the EPA Consent Decree is to submit periodic reports to demonstrate continuing compliance. The specific reporting requirements of the CD are described below.

1.2 Authority to Promulgate

The City of Jackson Public Works Department (JPWD) established the Wastewater Infrastructure Redevelopment Program in 2004. The Waggoner Engineering/AJA Management and Technical Services joint venture company, WEI/AJA LLC, was retained to assist the City in addressing the requirements of the Consent Decree under the existing Program Management contract for the Wastewater Infrastructure Redevelopment Program. Accordingly, the Program Management team compiled this Quarterly Report from information provided by the City and its contractors to fulfill the requirements of Section IX ¶ 57 (a) set forth in the CD.

1.3 Consent Decree Requirements for Quarterly Report

As stated in the Consent Decree Section IX \P 57 (a), the Quarterly Report shall be submitted beginning thirty (30) Days after the first full three (3)-month period following the Date of Entry of this Consent Decree, and thirty (30) Days after each subsequent three (3)-month period until termination of the Consent Decree and shall contain the following, at a minimum:

<u>Quarterly Reports.</u> Beginning thirty (30) Days after the first full three (3) month period following the Date of Entry of this Consent Decree, and thirty (30) Days after each subsequent three (3)-month period thereafter until termination of the Consent Decree, the City shall submit to EPA for review and approval a Quarterly Report that shall include the following:

- (i) the date, time, location, source, estimated duration, estimated volume, receiving water (if any), and cause of all SSOs occurring in the applicable three (3)-month period in a tabulated electronic format; and
- (ii) the date, time, estimated duration, estimated volume, and cause of all Prohibited Bypasses occurring in the applicable three (3)-month period in a tabulated electronic format.

2.0 Summary of SSOs and Prohibited Bypasses

2.1 Collection System SSOs

Table 1 lists SSOs in the collection system for the quarter.

Figure 1 shows SSO events by month as a result of the following reported causes:

- Grease
- Roots
- Solids
- Collapsed Pipe
- Pump Station Failure
- Excessive Flow
- Undersized Line
- Other

Monthly rainfall is also plotted.

Some SSO events had multiple causes. In these instances, each cause was assigned a fractional value, adding up to a total of one cause for each event.

Figure 2 shows total volume of SSOs for each month, along with monthly rainfall. Undetermined SSO volumes are not included in the totals.

Table 1

City of Jackson, Mississippi
Quarterly Report No. 2 - July 2013 through September 2013
Collection System SSOs

							\neg		ai		П		\neg	_	ai		\neg	П		<u>م</u>	П		
Reported Cause	Grease.	Grease.	Grease. Solids.	Solids.	Solids.		Grease. Solids.	Grease. Solids.	Grease. Collapsed Pipe.	Grease.	Grease,	Grease. Roots.	Grease.	Grease. Pump Station Failure.	Grease. Collapsed Pipe.	Grease.	Rain fall.	Grease.	Grease.	I & I from creek North of the manhole.	Grease.	Grease, Solids.	Grease. Solids.
Receiving Water	Bogue Chitto	Lynch	Town	Eubanks	Purple	Lynch	Lynch	Town	Lynch	Eubanks	Town	Big Creek	Big Creek	Hanging Moss	Eubanks	Сапу	Cany	Eubanks	Cany	Lynch	Cany	Hanging Moss	Eubanks
Estimated Volume, Gallons	1,380	30	1,380	10	0	30	50	10	300	1,380	920	1,180	3,380	2,780	10	50	250	240	250	Undetermined	300	40	20
Estimated Duration, Hours	1.08	0.83	0.83	0.42		0.75	1.58	1.52	2.67	1.00	0.83	1.08	0.00	3.08	2.67	2.70	12.27	1.33	0.23	00:00	0.00	2.00	1.67
Source	Manhole	Cleanout	Manhole	Cleanout		Cleanout	Manhole	Ground Surface (defective pipe underground)	Cleanout	Manhole	Manhole	Manhole	Manhole	Manhole	Ground Surface (defective pipe underground)	Other	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole	Manhole
Location	307 JAMES GARFIELD CIR	550 HOUSTON AVE	3235 MEDGAR EVERS BLVD	4838 WINDERMERE TER	1420 TRACEWOOD DR	550 HOUSTON AVE	5508 QUEEN ELIZABETH LANE	131 TAYLOR ST	502 LINDSEY DR	WATKINS DR FOREST AVE	CADILLAC DR DOUGLAS AVE	Įξ	4555 RAYMOND ROAD	4911 OLD CANTON RD	4612 BELMEDE PL	1098 BRANCH ST	SMALLWOOD ST WOODY DR	4469 AZALEA DR	MCDOWELL ROAD CRESTLEIGH MANOR	2520 S GALLATIN ST	124 GLENSTONE CIR	5266 PARKWAY DR	AD SWATKING DR
Time Began	9:40 AM	9:45 AM	10:25 AM	4:55 PM	4:55 PM	9:00 AM	4:15 PM	9:04 PM	9:50 AM	10:30 AM	12:00 PM	2:10 PM	10:00 AM	1:05 PM	4:35 PM	8:48 PM	5:04 AM	8:40 AM		12:36 PM	4:15 PM	7:35 PM	A.O.C. DAA
Date Began	7/1/2013	7/8/2013	7/8/2013	7/9/2013	7/9/2013	7/10/2013	7/10/2013	7/10/2013	7/12/2013	7/13/2013	7/13/2013	7/15/2013	7/16/2013	7/17/2013	7/17/2013	7/17/2013	7/18/2013	7/18/2013	7/19/2013	7/21/2013	7/21/2013	7/23/2013	7/20/2013

Table 1

City of Jackson, Mississippi
Quarterly Report No. 2 - July 2013 through September 2013
Collection System SSOs

Reported Cause	Collapsed Pipe.	Grease. Solids.	Pump Station Failure.	Grease. Solids.	Grease.	Grease.	Grease.	Grease.	Bypass pump stop working.	Grease.	Broken force main pipe.	Broken pipe.	Grease.	Collapsed Pipe.	Collapsed Pipe.	Grease. Roots. Defective pipe.	Grease.	Sewer tap or stub need repairing.	Grease.	Grease.	Broken force main.	Force main pipe broke.
Receiving Water	Lynch	Eastover	Eubanks	Cany	Lynch	Cany	Town	Lynch	Town	Hardy	Town	Town	Lynch	Purple	Lynch	Lynch	White Oak	Town	Belhaven	Lynch	Eubanks	Eubanks
Estimated Volume, Gallons	5	70	Undetermined	20	100	Undetermined	300	1,180	4,500	200	200	1,000	900	15	80	800	25	19	3,380	50	750	750
Estimated Duration, Hours	1.25	0.00	0.13	0.92	1.83	1.32	1.83	1.42	0.00	2.18	1.45	0.93	1.00	0.83	1.83	1.83	0.83	1.25	0.75	00:00		1.08
Source	Ground Surface (defective pipe underground)	Manhole	Manhole	Manhole	Manhole	Cleanout	Manhole	Ground Surface (defective pipe underground)	Manhole	Manhole	Other	Manhole	Cleanout	Ground Surface (defective pipe underground)	Cleanout	Ground Surface (defective pipe underground)	Manhole	Other	Manhole	Manhole	Manhole	Manhole
Location	4113 W CAPITOL ST	3911 EASTOVER DR	COWAN PL	4500 I 55 N	HWY 80	1044 COOPER ROAD	BAILEY AVE PALMYRA ST	SUNNYBROOK DR WESTHAVEN BLVD	2205 CONTENT ST HALL DR	2805 TERRY ROAD		ROSE ST CENTRAL ST	1732 CAMILLA DR	NORTHPOINTE PKWY	1533 WIGGINS ROAD		1049 AUBURN DR		JEFFERSON ST FORTIFICATION ST	3150 ROBINSON ROAD	1390 FOREST AVE	1390 FOREST AVE
Time Began	5:45 PM	7:10 PM	7:30 AM	5:45 PM	10:20 AM	2:11 PM	1:30 PM	9:05 AM	12:30 PM	10:47 AM	1:33 PM	12:04 PM	12:05 PM	6:05 PM	1:10 PM	11:15 AM	5:50 PM	2:15 PM	10:15 AM	4:57 PM		1:15 PM
Date Began Time Began	7/31/2013	7/31/2013	8/1/2013	8/5/2013	8/6/2013	8/6/2013	8/7/2013	8/9/2013	8/11/2013	8/16/2013	8/16/2013	8/19/2013	8/19/2013	8/19/2013	8/20/2013	8/22/2013	8/26/2013	8/29/2013	9/2/2013	9/5/2013	9/9/2013	9/9/2013

Table 1

City of Jackson, Mississippi
Quarterly Report No. 2 - July 2013 through September 2013
Collection System SSOs

Date Began	Date Began Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Receiving Water	Reported Cause
9/13/2013	3:45 PM	3670 LIBERTY ST	Cleanout	1.00	50	Town	Grease.
9/16/2013	11:30 AM	412 MCDOWELL ROAD GLENN ST	Other	1.00	3,380	Hardy	Grease.
9/17/2013	7:25 AM	E I 55 FRONTAGE DRUID HILL DR	Manhole	0.75	512	Eubanks	Grease.
9/17/2013	9:16 AM	367 BROOKWOOD PL LAKE	Manhole	1.75	2,500	Trahon	Grease.
9/20/2013	8:00 PM	275 MARLA AVE	Other	1.50	Undetermined	Three Mile	Solids.
9/22/2013	9:50 AM	MILL ST	Manhole	1.25	3,880	Town	Grease.
9/23/2013	10:00 AM	2151 N MILL ST	Manhole	1.25	3,880	Town	Grease.
9/23/2013	3:05 PM	2902 GREENWOOD AVE	Manhole	0.00	1,500	Hardy	Grease.
9/24/2013	11:15 AM	3150 ROBINSON ROAD	Manhole	12.50	2,250	Lynch	Grease.
9/24/2013	3:06 PM	1543 BURTON ST	Other	1.97	20	Lynch	rain getting into sewer line.
9/24/2013	3:30 PM	4735 ROBINSON ROAD EX	Manhole	0.67	1,180	Cany	Grease. Roots.
9/25/2013	10:43 AM	5477 ROBINSON ROAD EX	Manhole	2.12	4,500	Cany	Grease.
9/25/2013	6:40 PM	WINDSOR DR	Manhole	1.00	30	Lynch	Grease.
9/26/2013	4:15 PM	1054 MEADOW HEIGHTS DR	Manhole	1.50	1,180	Eubanks	Grease.

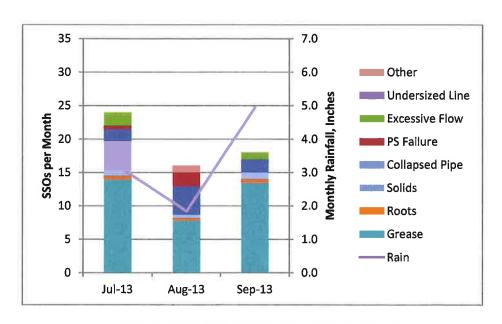


Figure 1: Collection System SSO Events by Cause

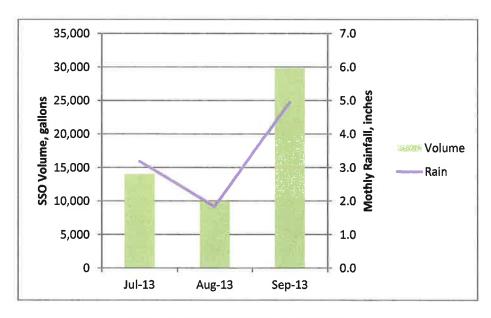


Figure 2: Collection System SSO Volumes

2.2 Pump Station SSOs

Table 1 lists pump station SSOs for the quarter.

Figure 3 shows pump station SSO events by month by cause, as listed above, as well as monthly rainfall. As above, multiple causes were assigned fractional value, adding up to a total of one cause for each event.

Figure 4 shows total volume of pump station SSOs for each month, along with monthly rainfall.

Table 2 City of Jackson, Mississippi Quarterly Report No. 2 - July 2013 through September 2013 Pump Station SSOs

ase	ailure. oorary causing	31112	alloi c	agoon.	lagoon. ailure.	lagoon. ailure.	ailure. ow. e Flow.	lagoon. ww. e Flow. ailure.	ailure. w. ailure. ailure. ow.
er Reported Cause	Pump Station Failure. Hose from temporary pump ruptured causing spill		Fump Station Failure.	-	-				
Receiving Water	Purple	1 vnch	Lynch	Bogue Chitto	Bogue Chitto Trahon	Bogue Chitto Trahon Lynch	Bogue Chitto Trahon Lynch Hardy	Bogue Chitto Trahon Lynch Hardy Cany	Bogue Chitto Trahon Lynch Hardy Cany
Estimated Volume, Gallons	700	2000		2000	5000	5000 75 2500	5000 75 2500 600	5000 75 2500 600	5000 75 2500 600 250
Estimated Duration, Hours	0.75	1.50		7.00	7.00	7.00 7.00 3.00	7.00 7.00 3.00 1.50	7.00 7.00 3.00 1.50	7.00 7.00 3.00 1.50 1.00
Source	Pump Station	Manhole		Manhole	Manhole Pump Station	Manhole Pump Station Manhole	Manhole Pump Station Manhole Manhole	Manhole Pump Station Manhole Manhole	Manhole Pump Station Manhole Manhole Manhole
Location	6510 OLD CANTON RD COUNTY LINE ROAD	4210 CHURCH CIR		7004 FRANKLIN D ROOSEVELT DR	7004 FRANKLIN D ROOSEVELT DR 342 Amanda Ln	7004 FRANKLIN D ROOSEVELT DR 342 Amanda Ln 4210 CHURCH CIR	7004 FRANKLIN D ROOSEVELT DR 342 Amanda Ln 4210 CHURCH CIR 2108 RAYMOND ROAD	7004 FRANKLIN D ROOSEVELT DR 342 Amanda Ln 4210 CHURCH CIR 2108 RAYMOND ROAD 2694 MOORE DR	7004 FRANKLIN D ROOSEVELT DR 342 Amanda Ln 4210 CHURCH CIR 2108 RAYMOND ROAD 2694 MOORE DR 4210 CHURCH CIR
Time Began	8:30 AM 6	6:30 AM		12:30 AM	12:30 AM 8:00 AM	12:30 AM 8:00 AM 1:00 AM	12:30 AM 8:00 AM 1:00 AM 2:00 PM	12:30 AM 8:00 AM 1:00 AM 2:00 PM 12:00 PM	12:30 PM 8:00 AM 1:00 AM 2:00 PM 12:30 PM
Date Began Time Began	07/19/13	07/27/13		08/09/13	08/09/13	08/09/13 09/04/13 09/21/13	08/09/13 09/04/13 09/21/13	08/09/13 09/04/13 09/21/13 09/21/13	08/09/13 09/04/13 09/21/13 09/21/13 09/24/13

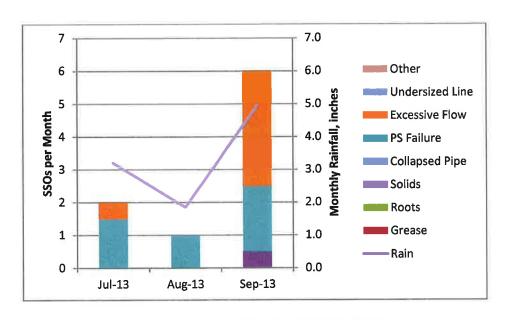


Figure 3: Pump Station SSO Events by Cause

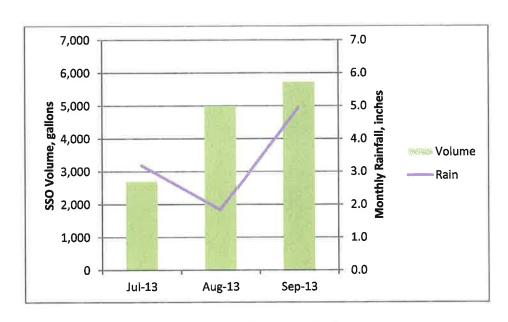


Figure 4: Pump Station SSO Volumes

2.3 Prohibited Bypasses

Table 3 lists prohibited bypasses at the wastewater treatment plants for the quarter. Only the Savanna Street plant had prohibited bypasses.

Figure 5 shows prohibited bypass events by month by cause, as listed above, as well as monthly rainfall.

Figure 6 shows total volume of prohibited bypasses for each month, along with monthly rainfall.

Table 3
City of Jackson, Mississippi
Quarterly Report No. 2 - July 2013 through September 2013
Prohibited Bypasses

Date Began	Date Began Time Began	Location	Source	Estimated Duration	Estimated Volume, Gallons	Receiving Water	Reported Cause
07/25/13		Savanna St WWTP	Influent Flow	2 days	6.28 million	Pearl River	Influent flow in excess of mechanical plant's capacity.
09/21/13	09/21/13 1:00 PM	Savanna St WWTP	Influent Flow	4 days	44.7 million	Pearl River	Heavy rain caused influent flow in excess of mechanical plant's

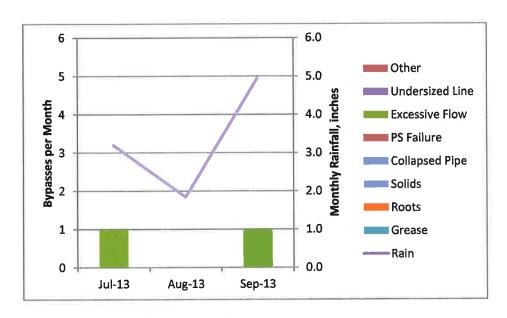


Figure 5: Prohibited Bypasses by Cause

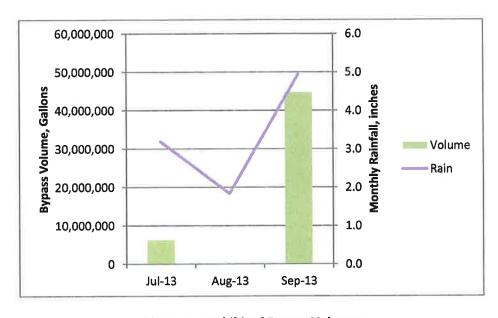


Figure 4: Prohibited Bypass Volumes